

PRODUCTION OF CUT-OUT PATTERN BY LASER BEAM

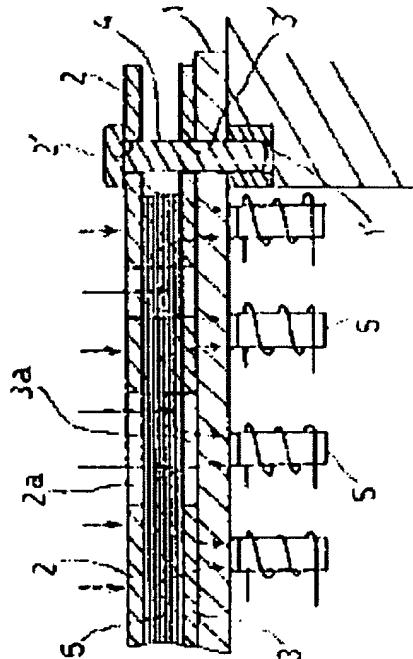
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Abstract of JP60121091

PURPOSE: To improve the quality of cut-out patterns and to increase the speed of production by brinding upper and lower stainless steel masks sandwiching thin materials into press contact with each other by electromagnets and cutting out the fine patterns to the material by a laser beam.

CONSTITUTION: A suitable number of materials 6 to be cut out such as paper or the like are sandwiched between stainless steel mask plates 2, 3 formed preliminarily to a prescribed fine pattern. Pins 4 are fitted into pin holes 2', 3' and the cut out pattern parts 2a and 3a are superposed to fit the tips of the pins 4 into the fitting holes 1' of a base plate 1. Electromagnets 5 in the lower part of the plate 1 are operated and the plates 2, 3 are fixed to the materials 6 in tight contact therewith by the magnetic force thereof. A laser beam is then irradiated downward and perpendicularly to the plate 2 and the materials 6 are cut out to the same shape as the shape of the pattern 2a thereby forming the pattern. Large quantities of the fine patterns having good quality are quickly formed on the materials by the above-mentioned method.



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